

**AMENDMENTS TO THE CLAIMS**

**Claims pending**

- At time of the Action: Claims 1-37.
- After this Response: Claims 1-37

**Canceled or Withdrawn claims:** 31-37

**Amended claims:** None

**New claims:** None

1. **(Original)** A substrate suitable for printing a toner image thereon,  
comprising:

printing media;

an overlayer coating, having an outer surface to which a toner image can be  
fused and fixed, the overlayer coating comprising an overlay polymer chosen from  
the group consisting of ethylene acrylic acid copolymer, polyvinyl pyridine and  
styrene butadiene copolymer,

wherein the overlayer is one or both of substantially free of particulate  
matter and substantially wax and pigment free.

2. **(Original)** A substrate according to claim 1 wherein the overlayer is  
substantially free of particulate matter.

3. **(Original)** A substrate according to claim 1 wherein the overlayer is  
substantially wax and pigment free.

1           4.     **(Original)** A substrate according to claim 3 wherein the overlayer is  
2 substantially free of particulate matter.

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4           5.     **(Original)** A substrate according to claim 1 wherein the printing  
5 media is paper.

6  
7           6.     **(Original)** A substrate according to claim 1 wherein the printing  
8 media is plastic.

9  
10          7.     **(Original)** A substrate according to claim 6 wherein the plastic is  
11 polyethylene.

12  
13          8.     **(Original)** A substrate according to claim 6 wherein the plastic is  
14 vinyl.

15  
16          9.     **(Original)** A substrate according to claim 6 wherein the plastic is  
17 polycarbonate.

18  
19          10.    **(Original)** A substrate according to claim 6 wherein the plastic is  
20 polyethylene terephthalate (PET).

21  
22          11.    **(Original)** A substrate according to claim 6 wherein the plastic is  
23 BOPP (biaxially oriented polypropylene film).

1           12.   **(Original)** A substrate according to claim 1 and including an  
2 underlayer coating between the overlayer and the printing media, the underlayer  
3 coating providing enhanced adhesion of the overlayer to the media.

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5           13.   **(Original)** A substrate according to claim 13 wherein the underlayer  
6 comprises amine terminated polyamide.

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8           14.   **(Original)** A substrate according to claim 13 wherein the underlayer  
9 comprises amino propyl triethoxy silane or reaction products of amino propyl  
10 triethoxy silane.

11  
12           15.   **(Original)** A substrate according to claim 13 wherein the underlayer  
13 has a weight of between 0.1 and 1 grams per square meter.

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15           16.   **(Original)** A substrate according to claim 15 wherein the underlayer  
16 has a weight of between about 0.3 and 0.5 grams per square meter.

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18           17.   **(Original)** A substrate according to claim 1 wherein the underlayer  
19 is free of particulate matter.

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21           18.   **(Original)** A substrate according to claim 13 consisting of only two  
22 coating layers.

23  
24           19.   **(Original)** A substrate suitable for printing a toner image thereon,  
25 comprising:

1 paper printing media;

2 an overlayer coating, having an outer surface to which a toner image can be  
3 fused and fixed, the coating comprising a overlayer polymer chosen from the  
4 group consisting of ethylene acrylic acid copolymer, polyvinyl pyridine and  
5 styrene butadine copolymer.

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7 20. **(Original)** A substrate according to claim 1 or claim 19 wherein the  
8 overlayer comprises styrene butadiene copolymer.

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10 21. **(Original)** A substrate according to claim 1 or claim 19 wherein the  
11 overlayer comprises ethylene acrylic acid copolymer.

12  
13 22. **(Original)** A substrate according to claim 21 wherein the ethylene  
14 acrylic acid copolymer has an acrylic acid comonomer percentage weight of  
15 between 8% and 18%.

16  
17 23. **(Original)** A substrate according to claim 21 wherein the ethylene  
18 acrylic acid copolymer has an acrylic acid comonomer percentage weight of  
19 between 12% than 16%.

20  
21 24. **(Original)** A substrate according to claim 22 wherein the acidity of  
22 the copolymer has been reduced.

23  
24 25. **(Original)** A substrate according to claim 24 wherein the acidity of  
25 the copolymer has been reduced by saponification.

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2 26. **(Original)** A substrate according to claim 1 or claim 19 wherein the  
3 overlayer comprises polyvinyl pyridine.  
4

5 27. **(Original)** A substrate according to claim 1 or claim 19 wherein the  
6 overlayer has a weight of between 0.1 and 10 grams per square meter.  
7

8 28. **(Original)** A substrate according to claim 27 wherein the overlayer  
9 has a weight of between 0.2 and 2 grams per square meter.  
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11 29. **(Original)** A substrate according to claim 28 wherein the overlayer  
12 has a weight of between about 0.25 and about 0.35 grams per square meter.  
13

14 30. **(Original)** A substrate according to claim 19 and including an  
15 underlayer coating between the overlayer and the substrate, the underlayer coating  
16 providing enhanced adhesion of the overlayer to the substrate.  
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18 31. **(Withdrawn)** A method of producing a coated substrate which a  
19 toner image can be adhered comprising:

20 providing a printing media; and

21 overcoating the media with an overlayer coating, the overlayer coating  
22 comprising a second polymer material and having an outer surface to which a  
23 toner image can be fused and fixed, the second polymer comprising a polymer  
24 chosen from the group consisting of ethylene acrylic acid copolymer, polyvinyl  
25 pyridine and styrene butadiene copolymer,

1 wherein the overlayer coating is one or both of substantially wax and  
2 pigment free or substantially free of particulate matter.

3  
4 32. **(Withdrawn)** A method of producing a coated substrate which a  
5 toner image can be adhered comprising:

6 providing a paper substrate; and

7 coating the paper substrate with an overlayer coating, the overlayer coating  
8 comprising a polymer material and having an outer surface to which a toner image  
9 can be fused and fixed, the polymer material comprising a polymer chosen from  
10 the group consisting of ethylene acrylic acid copolymer, polyvinyl pyridine and  
11 styrene butadiene copolymer.

12  
13 33. **(Withdrawn)** A printing method comprising:

14 providing a substrate according to claim 1 or claim 19; and

15 printing a toner image on the substrate.

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17 34. **(Withdrawn)** A printing method according to claim 33 wherein the  
18 toner image is a liquid toner image.

19  
20 35. **(Withdrawn)** A printing method according to claim 34 wherein  
21 printing comprises transferring the toner image to the substrate using heat and  
22 pressure.

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24 36. **(Withdrawn)** A printing method according to claim 33 wherein  
25 printing comprises electrostatically transferring the toner image to the substrate.

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2 37. **(Withdrawn)** A printing method according to claim 33 and  
3 comprising:

4 forming the image on an image forming surface;

5 transferring the image from the image forming surface to an intermediate  
6 transfer member; and

7 transferring the image from the intermediate transfer member to the  
8 substrate.  
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